

Art Unit: 3767

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Aaron Haleva on 3/5/10.

1. In claim 23, following "A method for automatically refilling a syringe for a powered angiographic injector arrangement, said method comprising:"

----- *"completing a first injection via the powered angiographic injector arrangement;*

sensing a volume of fluid remaining in a chamber of said syringe following the first injection;

providing a fluid reservoir in communication with said chamber;

receiving a user input associated with a subsequent injection via said powered angiographic injector arrangement, the user input comprising a safety parameter for the subsequent injection selected from the group consisting of maximum injection volume, maximum flow rate, maximum pressure, and rise time;

determining a preset volume of fluid necessary for the subsequent injection based on the user input;

comparing said volume remaining in said chamber with said preset volume of fluid; and either

(a) advancing a plunger within said chamber of said syringe to perform the subsequent injection if said preset volume of fluid is equal to or less than the volume of fluid remaining in said chamber, or

(b) automatically retracting a plunger to a predetermined position within said chamber of said syringe to draw fluid from the fluid reservoir into the chamber if said preset volume of fluid is greater than the volume of fluid remaining in said chamber." ---- has been deleted, and

Art Unit: 3767

----- *“providing a fluid reservoir in communication with a chamber of said syringe; completing a first injection via the powered angiographic injector arrangement; wherein the powered angiographic injector arrangement: senses a volume of fluid remaining in the chamber of the syringe following the first injection; receives a user input associated with a subsequent injection, the user input comprising a safety parameter for the subsequent injection selected from the group consisting of maximum injection volume, maximum flow rate, maximum pressure, and rise time; determines a preset volume of fluid necessary for the subsequent injection based on the user input; compares said volume remaining in said chamber with said preset volume of fluid; and either (a) advances a plunger within said chamber of said syringe to perform the subsequent injection if said preset volume of fluid is equal to or less than the volume of fluid remaining in said chamber, or (b) automatically retracts a plunger to a predetermined position within said chamber of said syringe to draw fluid from the fluid reservoir into the chamber if said preset volume of fluid is greater than the volume of fluid remaining in said chamber.”* ---- has been inserted.

2. In claim 27, following “A method for automatically refilling a syringe for a powered angiographic injector arrangement, said method comprising:”

---“ *sensing a volume of fluid in a chamber of said syringe following an injection via said powered injector arrangement; providing a fluid reservoir in communication with said chamber; receiving a user input associated with a subsequent injection via said powered injector arrangement, the user input comprising a safety parameter for the subsequent injection selected from the group consisting of maximum injection volume, maximum flow rate, maximum pressure, and rise time; determining a preset amount of fluid necessary for the subsequent injection based on the user input;*

Art Unit: 3767

comparing said volume in said chamber with said preset amount of fluid; and either

(a) advancing a plunger within said chamber of said syringe to perform the subsequent injection if said preset amount of fluid is equal to or less than the volume of fluid sensed in said chamber, or

(b) retracting a plunger to a predetermined position within said chamber of said syringe to draw fluid from the fluid reservoir into the chamber if said preset amount of fluid is greater than the volume of fluid sensed in said chamber.” --- has been deleted and

---“ sensing a volume of fluid in a chamber of said syringe following an injection via said powered injector arrangement;

providing a fluid reservoir in communication with said chamber;

wherein the powered angiographic injector arrangement:

receives a user input associated with a subsequent injection via said powered injector arrangement, the user input comprising a safety parameter for the subsequent injection selected from the group consisting of maximum injection volume, maximum flow rate, maximum pressure, and rise time;

determines a preset amount of fluid necessary for the subsequent injection based on the user input;

compares said volume in said chamber with said preset amount of fluid; and either

(a) advances a plunger within said chamber of said syringe to perform the subsequent injection if said preset amount of fluid is equal to or less than the volume of fluid sensed in said chamber, or

(b) retracts a plunger to a predetermined position within said chamber of said syringe to draw fluid from the fluid reservoir into the chamber if said preset amount of fluid is greater than the volume of fluid sensed in said chamber.” --- has been inserted.

Art Unit: 3767

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CATHERINE N. WITCZAK whose telephone number is (571)272-7179. The examiner can normally be reached on Monday through Friday, 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Catherine N Witczak/

Examiner, Art Unit 3767

/Kevin C. Sirmons/

Supervisory Patent Examiner, Art Unit 3767